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CERTIFICATE OF ANALYSIS

Name of the Sample : Methyl Orange pH Indicator
Batch No. : 227429
Date of Mfg. : March 2024
Date of Exp : Feb 2029
Register No. : 2024-25
Qty of Sample : 100gm
Date of Analysis : March 2024

S. No	Test Parameters	Observed Values	Standard Values
1.	Appearance	Passes	Dark orange powder
2.	Transition range pH 3.1-4.4	Passes	Pink – Orange yellow
3.	Solubility 0.1% (Dist. water)	Passes	Orange solution
4.	Absorptivity 1%/1cm, (pH 3.1) at λ max. 504.2 nm (pH 4.4) at λ max. 468.6 nm	1115 822	>1050 > 750
5.	Loss on drying at 110°C (1 hr)	1.45%	< 3%
6.	Transition range acc. ACS	Passes test	Passes test

Chief Chemist